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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/929,278	08/15/2001	Keith Bentley	36488-169754	8202

7590 02/23/2004

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EXAMINER

LE, MIRANDA

ART UNIT	PAPER NUMBER
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2177

DATE MAILED: 02/23/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/929,278

Applicant(s)

BENTLEY, KEITH

Examiner

Miranda Le

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 15 August 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-81 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-81 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

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## DETAILED ACTION

### *Claim Objections*

1. Claim 42 is objected to because of the following informalities: claim 42, line 5, "at lest" should be changed to "at least". Appropriate correction is required.

### *Drawings*

2. The drawings filed on 08/15/2001 are not **approved** by the Draftsperson under 37 CFR 1.84 or 1.152 for the reasons submitted in Form PTO 948.

### *Claim Rejections - 35 USC § 102*

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless:

(e) the invention was described in

(1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or

(2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-7, 15-18, 26-30, 38-39, 49-50, 52-53, 55-56, 58-62, 66-70, 74-78 are rejected under 35 U.S.C. 102(e) as being anticipated by Ferrel et al. (US Patent No. 6,584,480).

Ferrel anticipated independent claims 1, 3, 15, 28, 39, 58, 66, 74, by the following:

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**As per claim 1**, Ferrel teaches “A computer readable medium containing a file for storing a root storage (Fig. 10, element 550) including a model directory comprising at least one model (col. 23, lines 22-36), wherein said at least one model comprises a model header (Fig. 10, element 560)” at col. 23, lines 22-26, col. 13, lines 36-57, Fig. 10.

**As per claim 3**, Ferrel teaches “A computer readable medium containing a file for storing a root storage including a model directory comprising a plurality of models (Fig. 14, col. 31, line 59 to col. 32, line 16) wherein each of said plurality of models comprises a model header (Fig. 14, element 862), a graphic element list (i.e. <U>) containing at least one element chunk (i.e. TEXT) and a control element list (i.e. <WA>) containing at least one element chunk (i.e. object data, object bitmap), wherein each said element chunk comprises an element chunk header (i.e. <H>) and at least one element associated with its respective element chunk header” at col. 32, lines 26-67, col. 13, lines 36-57, col. 36, lines 25-59.

**As to claims 15, 28**, Ferrel teaches “A computer program product comprising a computer readable medium having a computer program logic stored therein, the computer program logic comprising: means for enabling a computing unit to store a root storage comprising a model directory in a storage area” at col. 6, line 54 to col. 7, line 2, col. 32, lines 26-67, col. 13, lines 36-57 and Figs. 14, 15.

“means for enabling said computing unit to store at least one model in said model directory, wherein said at least one model comprises a control element list having element chunks containing control elements, and a graphic element list having element chunks containing

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graphic elements” at col. 6, line 54 to col. 7, line 2, col. 32, lines 26-67, col. 13, lines 36-57 and Figs. 14, 15.

**As per claim 39**, Ferrel teaches “A computer program product comprising a computer readable medium having computer program logic, the computer, program logic comprising: means for enabling a computer system to store at least one root storage in a storage area” at col. 23, lines 22-48, col. 21, lines 18-33, col. 22, lines 41-47;

“means for enabling said computer system to store at least one model directory in said at least one root storage” at col. 6, line 54 to col. 7, line 2, col. 32, lines 26-67, col. 13, lines 36-57 and Figs. 14, 15;

“means for enabling said computer system to store at least one model in said model directory” at col. 6, line 54 to col. 7, line 2, col. 32, lines 26-67, col. 13, lines 36-57 and Figs. 14, 15;

“means for enabling said computer system to store in said at least one model a graphic element list having element chunks containing graphic elements and a control element list having element chunks containing control elements” at col. 6, line 54 to col. 7, line 2, col. 32, lines 26-67, col. 13, lines 36-57, col. 36, lines 25-59 and Figs. 14, 15;

“means for enabling said computer system to assign a preselected number of elements to each said element chunk” at col. 35, lines 1-22, col. 36, lines 25-59, Fig. 17;

“means for enabling said computer system to allocate each of said preselected number of elements to an element chunk in one of said control element list and said graphic element list” at col. 35, lines 1-22, col. 36, lines 25-59, Fig. 17.

**As to claims 58, 66, 74,** Ferrel teaches “A computer readable medium containing a file for storing an element list including at least one element chunk, wherein said at least one element chunk comprises an element chunk header and at least one element associated with said element chunk header” at col. 6, line 54 to col. 7, line 2, col. 32, lines 26-67, col. 13, lines 36-57, col. 36, lines 25-59 and Figs. 14, 15.

**As per claim 2,** Ferrel teaches “said at least one model further comprises at least one element list including at least one element chunk (col. 22, lines 41-47, Fig. 10), wherein said at least one element chunk comprises an element chunk header and at least one element associated with said element chunk header” at col. 32, lines 26-67, col. 36, lines 25-59 and Figs. 14, 15.

**As per claim 4,** Ferrel teaches “said root storage further comprises a control model containing a control model header, a global control element list and a global graphic element list, wherein said global control element list and said global graphic element list contain element chunks including global elements” at col. 12, lines 26-56, col. 13, line 38 to col. 14, line 21, col. 12, lines 26-56, col. 13, lines 21-28.

**As per claim 5,** Ferrel teaches “said global elements contain information relevant for all models in said model directory” at col. 7, lines 3-51.

**As to claims 6, 26, 30, 55,** Ferrel teaches “said root storage further comprises at least one of a first stream containing a header, a second stream containing session information, a third stream containing a manifest and a fourth stream containing file properties” at col. 32, lines 26-67, col. 13, lines 36-57, col. 36, lines 25-59 and Figs. 10, 14, 15.

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**As to claims 7, 27, 38, 56,** Ferrel teaches “said root storage further comprises at least one of a stream or a storage, which are not contained in said model directory” at col. 6, line 54 to col. 7, line 2, col. 21, lines 18-59, col. 22, line 41 to col. 23, line 57, col. 32, lines 26-67, col. 13, lines 36-57, col. 36, lines 25-59 and Figs. 4, 10, 14, 15.

**As per claim 16,** Ferrel teaches “said storage area is a memory unit in a network” at col. 6, line 11-23.

**As per claim 17,** Ferrel teaches “said storage area is a memory unit in a workstation” at col. 32, lines 26-67.

**As per claim 18,** Ferrel teaches “means for enabling the computing unit to store a control model in said root storage, wherein said control model includes a global graphic element list and a global control element list, wherein said global graphic element list contains at least one global element chunk having at least one global graphic element and said global control element list contains at least one global element chunk having at least one global control element” at col. 6, line 54 to col. 7, line 2, col. 32, lines 26-67, col. 13, lines 36-57, col. 36, lines 25-59 and Figs. 14, 15.

**As per claim 29,** Ferrel teaches “means for enabling said computing unit to store a control model in said root storage, wherein said control model includes a global graphic element list and a global control element list, wherein said global graphic element list contains at least one global element chunk having at least one global graphic element and said global control

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element list contains at least one global element chunk having at least one global control element” at col. 6, line 54 to col. 7, line 2, col. 32, lines 26-67, col. 13, lines 36-57, col. 36, lines 25-59 and Figs. 14, 15.

**As per claim 49**, Ferrel teaches “means for enabling said computer system to associate a header with said at least one root storage” at col. 23, lines 22-26, col. 13, lines 36-57, Fig. 10.

**As per claim 50**, Ferrel teaches “said computer system is the Internet” at col. 12, lines 26-56.

**As per claim 52**, Ferrel teaches “said computer system is a local area network” at col. 12, lines 26-56.

**As per claim 53**, Ferrel teaches “said storage area is a file” see abstract.

**As to claims 59, 67, 75**, Ferrel teaches “said element list is a graphic element list” at col. 36, lines 25-59 and Figs. 14, 15.

**As to claims 60, 68, 76**, Ferrel teaches “said element list is a control element list” col. 36, lines 25-59 and Figs. 14, 15.

**As to claims 61, 69, 77**, Ferrel teaches “said element list is a global graphic element list” at col. 13, lines 21-67, col. 14, lines 1-21.



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**As to claims 62, 70, 78,** Ferrel teaches “element list is a global control element list” at col. 13, lines 21-67, col. 14, lines 1-21.

***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

6. Claims 8-9, 14, 19-20, 25, 31-32, 37, 40, 54, 57, 63, 71, 79 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ferrel et al. (US Patent No. 6,584,480), in view of Wolff et al. (US Patent No. 6,076,105).

**As to claims 8, 19, 31,** Ferrel does not specifically teach “at least one element chunk in said graphic element list is compressed”. However, Wolff teaches this limitation at col. 29, lines 21-43.

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Ferrel with the teachings of Wolff to include “at least one element

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chunk in said graphic element list is compressed” in order to reduce in size of data to save space or transmission time.

**As to claims 9, 20, 32,** Ferrel does not expressly teach “at least one element chunk in said control element list is compressed”. However, Wolff teaches this limitation at col. 29, lines 21-43.

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Ferrel with the teachings of Wolff to include “at least one element chunk in said control element list is compressed” in order to reduce in size of data to save space or transmission time.

**As to claims 14, 25, 37, 54,** Ferrel does not explicitly teach “said root storage is adapted to be operable with a computer aided design program”. However, Wolff teaches this limitation at col. 29, lines 21-43.

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Ferrel with the teachings of Wolff to include “said root storage is adapted to be operable with a computer aided design program” in order to provide an improved system and method for distributed processing over network that allow users (i.e. architects, engineers, drafters, artists, and others) to efficiently create precision drawing or technical illustrations (i.e. create two-dimensional (2-D) drawings or three-dimensional (3-D) models).

**As per claim 40**, Ferrel does not specifically teach “means for enabling said computer system to compress each element chunk; means for enabling said computer system to store at least one compressed element chunk in at least one of the graphic element list and control element list”. However, Wolff teaches “means for enabling said computer system to compress each element chunk” at col. 29, lines 21-43.

“means for enabling said computer system to store at least one compressed element chunk in at least one of the graphic element list and control element list” at col. 29, lines 21-43.

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Ferrel with the teachings of Wolff to include “means for enabling said computer system to compress each element chunk; means for enabling said computer system to store at least one compressed element chunk in at least one of the graphic element list and control element list” in order to reduce in size of data to save space or transmission time.

**As per claim 57**, Ferrel teaches “means for enabling said computer system to store a control model in each root storage” at col. 23, lines 22-48.

“means for enabling said computer system to store a graphic element list and a control element list in each control model” at col. 7, lines 22-54, col. 11, lines 13-25.

“means for enabling said computer system to allocate elements to element chunks in said control element list and said graphic element list” col. 36, lines 25-59 and Figs. 14, 15.

Ferrel does not explicitly teach “means for enabling said computer system to compress each element chunk to be stored in said graphic element list or said control model list in said control model directory”. However, Wolff teaches this limitation at col. 29, lines 6-61.

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It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Ferrel with the teachings of Wolff to include “means for enabling said computer system to compress each element chunk to be stored in said graphic element list or said control model list in said control model directory” in order to reduce in size of data to save space or transmission time.

**As to claims 63, 71, 79**, Ferrel does not specifically teach “at least one element chunk is compressed”. However, Wolff teaches this limitation at col. 29, lines 6-61.

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Ferrel with the teachings of Wolff to include “at least one element chunk is compressed” in order to reduce in size of data to save space or transmission time.

7. Claims 10-11, 21-22, 33-34, 41, 43-44, 46, 48, 51, 64, 72, 80 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ferrel et al. (US Patent No. 6,584,480), in view of Bolosky et al. (US Pub. No. US 2002/0194209 A1).

**As to claims 10, 21, 33**, Ferrel does not specifically teach “at least one element chunk in said graphic element list is encrypted”. However, Bolosky teaches this limitation at [0039] to [0041].

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Ferrel with the teachings of Bolosky to include “at least one element

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chunk in said graphic element list is encrypted” in order to prevent unauthorized users from reading data stored on the devices.

**As to claims 11, 22, 34**, Ferrel does not expressly teach “at least one element chunk in said control element list is encrypted”. However, Bolosky teaches this limitation at [0039] to [0041].

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Ferrel with the teachings of Bolosky to include “at least one element chunk in said control element list is encrypted” in order to prevent unauthorized users from reading data stored on the devices.

**As per claim 41**, Ferrel does not explicitly teach “means for enabling said computer system to encrypt each element chunk; and means for enabling said computer system to store at least one encrypted element chunk in at least one of the graphic element list and control element list”. However, Bolosky teaches this limitation at [0039] to [0041].

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Ferrel with the teachings of Bolosky to include “means for enabling said computer system to encrypt each element chunk; and means for enabling said computer system to store at least one encrypted element chunk in at least one of the graphic element list and control element list” in order to prevent unauthorized users from reading data stored on the devices.

**As per claim 43**, Ferrel does not specifically teach “said preselected number is a maximum number”. However, Bolosky teaches this limitation at [143] to [146].

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Ferrel with the teachings of Bolosky to include “said preselected number is a maximum number” in order to allow a user to quickly access a file, verify that it is indeed the requested file, and read/write that file, all while insuring that the files are stored and access by non-authorized users.

**As per claim 44**, Ferrel does not explicitly teach “means for enabling said computer system to create an additional element chunk when the number of elements exceeds said preselected number of elements assigned to each element chunk; means for enabling said computer system to assign a preselected number of elements to said additional element chunk; means for enabling said computer system to store new elements in said additional element chunk”. However, Bolosky teaches

“means for enabling said computer system to create an additional element chunk when the number of elements exceeds said preselected number of elements assigned to each element chunk” at [143] to [146].

“means for enabling said computer system to assign a preselected number of elements to said additional element chunk” at [143] to [146].

“means for enabling said computer system to store new elements in said additional element chunk” at [146] to [149].

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Ferrel with the teachings of Bolosky to include “means for enabling said computer system to create an additional element chunk when the number of elements exceeds said preselected number of elements assigned to each element chunk; means for enabling said computer system to assign a preselected number of elements to said additional element chunk; means for enabling said computer system to store new elements in said additional element chunk” in order to allow a user to quickly access a file, verify that it is indeed the requested file, and read/write that file, all while insuring that the files are stored and access by non-authorized users.

**As per claim 46**, Ferrel does not explicitly teach “means for enabling said computer system to encrypt each additional element chunk; and means for enabling said computer system to store at least one additional encrypted element chunk in at least one of said graphic element list and said control element list”. However, Bolosky teaches this limitation at [39] to [40].

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Ferrel with the teachings of Bolosky to include “means for enabling said computer system to encrypt each additional element chunk; and means for enabling said computer system to store at least one additional encrypted element chunk in at least one of said graphic element list and said control element list” in order to allow a user to quickly access a file, verify that it is indeed the requested file, and read/write that file, all while insuring that the files are stored and access by non-authorized users.

**As per claim 48**, Ferrel does not teach "said preselected number is a maximum number". However, Bolosky teaches this limitation at [143] to [148].

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Ferrel with the teachings of Bolosky to include "said preselected number is a maximum number" in order to allow a user to quickly access a file, verify that it is indeed the requested file, and read/write that file, all while insuring that the files are Stored and access by non-authorized users.

**As per claim 51**, Ferrel does not specifically teach "said computer system is an Intranet". However, Bolosky teaches this limitation at [0062].

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Ferrel with the teachings of Bolosky to include "said computer system is an Intranet" because it would help large enterprises allow users within their intranet to access the public Internet through firewall servers that have the ability to screen messages in both directions so that company security is maintained.

**As to claims 64, 72, 80**, Ferrel does not expressly teach "said at least one element chunk is encrypted". However, Bolosky teaches this limitation at [39] to [40].

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Ferrel with the teachings of Bolosky to include "said at least one element chunk is encrypted" in order to allow a user to quickly access a file, verify that it is



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indeed the requested file, and read/write that file, all while insuring that the files are stored and access by non-authorized users.

8. Claims 12-13, 23-24, 35-36, 42, 45, 47, 65, 73, 81 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ferrel et al. (US Patent No. 6,584,480), in view of Bolosky et al. (US Pub. No. US 2002/0194209 A1), and further in view of in view of Wolff et al. (US Patent No. 6,076,105).

**As to claims 12, 23, 35,** Ferrel does not specifically teach “at least one element chunk in said control element list is encrypted”. However, Bolosky teaches this limitation at [39] to [40].

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Ferrel with the teachings of Bolosky to include “at least one element chunk in said control element list is encrypted” in order to prevent unauthorized users from reading data stored on the devices.

Ferrel and Bolosky do not explicitly teach “at least one element chunk in said control element list is compressed”. However, Wolff teaches this limitation at col. 29, lines 6-61.

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Ferrel with the teachings of Wolff to include “at least one element chunk in said control element list is compressed” in order to reduce in size of data to save space or transmission time.

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**As to claims 13, 24, 36,** Ferrel does not teach “at least one element chunk in said graphic element list is encrypted”. However, Bolosky teaches this limitation at [39] to [41].

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Ferrel with the teachings of Bolosky to include “at least one element chunk in said graphic element list is encrypted” in order to prevent unauthorized users from reading data stored on the devices, as taught by Bolosky at [0038].

Ferrel and Bolosky do not explicitly teach “at least one element chunk in said graphic element list is compressed”. However, Wolff teaches this limitation at col. 29, lines 6-61.

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Ferrel with the teachings of Wolff to include “at least one element chunk in said graphic element list is compressed” in order to reduce in size of data to save space or transmission time.

**As per claim 42,** Ferrel does not specifically teach “means for enabling said computer system to compress and encrypt each element chunk; and means for enabling said computer system to store at least one encrypted and compressed element chunk in at least one of the graphic element list and the control element list”.

However, Bolosky teaches “means for enabling said computer system to encrypt each element chunk; and means for enabling said computer system to store at least one encrypted element chunk in at least one of the graphic element list and the control element list”.

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Ferrel with the teachings of Bolosky to include “means for enabling

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said computer system to encrypt each element chunk; and means for enabling said computer system to store at least one encrypted element chunk in at least one of the graphic element list and the control element list” in order to allow a user to quickly access a file, verify that it is indeed the requested file, and read/write that file, all while insuring that the files are stored and access by non-authorized users.

Ferrel and Bolosky do not expressly teach each element chunk is compressed, but Wolff teaches this limitation at col. 29, lines 6-61. Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Ferrel, Bolosky with the teachings of Wolff to include each element chunk is compressed in order to reduce in size of data to save space or transmission time.

**As per claim 45**, Ferrel does not teach “means for enabling said computer system to compress each additional element chunk; means for enabling said computer system to store at least one additional compressed element chunk in at least one of said graphic element list and said control element list”. However, Wolff teaches these limitations at col. 29, lines 6-61.

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Ferrel with the teachings of Wolff to include “means for enabling said computer system to compress each additional element chunk; means for enabling said computer system to store at least one additional compressed element chunk in at least one of said graphic element list and said control element list” in order to reduce in size of data to save space or transmission time.

**As per claim 47**, Ferrel does not specifically teach “means for enabling said computer system to compress and encrypt each additional element chunk; and means for enabling said computer system to store at least one additional encrypted and compressed element chunk in at least one of said graphic element list and said control element list”. However, Bolosky teaches “means for enabling said computer system to encrypt each additional element chunk; and means for enabling said computer system to store at least one additional encrypted element chunk in at least one of the graphic element list and the control element list”.

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Ferrel with the teachings of Bolosky to include “means for enabling said computer system to encrypt each additional element chunk; and means for enabling said computer system to store at least one additional encrypted element chunk in at least one of said graphic element list and said control element list” in order to allow a user to quickly access a file, verify that it is indeed the requested file, and read/write that file, all while insuring that the files are stored and access by non-authorized users.

Ferrel and Bolosky do not expressly teach each additional element chunk is compressed, but Wolff teaches this limitation at col. 29, lines 6-61. Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Ferrel, Bolosky with the teachings of Wolff to include each element chunk is compressed in order to reduce in size of data to save space or transmission time.

**As to claims 65, 73, 81**, Ferrel does not teach “said at least one element chunk is encrypted”. However, Bolosky teaches this limitation at [39] to [40].

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It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Ferrel with the teachings of Bolosky to include "said at least one element chunk is encrypted" in order to prevent unauthorized users from reading data stored on the devices, as taught by Bolosky at [0038].

Ferrel and Bolosky do not explicitly teach "said at least one element chunk is compressed". However, Wolff teaches this limitation at col. 29, lines 21-43.

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Ferrel with the teachings of Wolff to include "said at least one element chunk is compressed" in order to reduce in size of data to save space or transmission time.

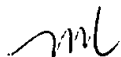
### *Conclusion*

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Miranda Le whose telephone number is (703) 305-3203. The examiner can normally be reached on Monday through Friday from 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E. Breene, can be reached on (703) 305-9790. The fax number to this Art Unit is (703) 872-9306. The TC 2100's Customer Service number is (703) 306-5631.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-3900.



Miranda Le  
February 16, 2004



GRETA ROBINSON  
PRIMARY EXAMINER